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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/816,980	04/02/2004	Ho-Yuan Yu	LOVO-56.DIV	2006	
41066	7590 07/27/2006		EXAMINER		
WAGNER, MURABITO & HAO, LLP TWO NORTH MARKET STREET, THIRD FLOOR			NGO, N	NGO, NGAN V	
	JOSE, CA 95113		ART UNIT	PAPER NUMBER	
J. 1. 1. 1. 2. 2. 4.			2818		
			DATE MAILED: 07/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/816,980	YU, HO-YUAN			
Office Action Summary	Examiner	Art Unit			
127	Ngan Ngo	2818			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 10 M	av 2006.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-10 and 21-30</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10 and 21-30</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·				
Priority under 35 U.S.C. § 119					
•	priority under 35 H S C & 110(a)	)-(d) or (f)			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	ı (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da	ate Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:	atom (ppinounal (r 1 a 1 aa)			

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The response filed May 10, 2006 has been entered and made of record as paper no. 0506.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "MOSFET" in claims 4 and 24 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. In regard to Applicant's argument that figure 3 may be (?) a MOSFET, it is noted that figure 1 is a JFET, not MOSFET. If Applicant continue to refuse to comply with rule 37 CFR 1.83(a) in the next office action, the Examiner will consider the response nonresponsive.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 21, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsunashima et al (US 2002/0024082 A1).

Tsunashima et al discloses an electronic silicon device comprising a silicon substrate (1), a trench disposed in the planar surface of the silicon substrate having a wall and a bottom, a silicon dioxide layer (7) formed on the bottom and the wall of the trench and being terminated at a distance below the planar surface of the silicon device, and a polysilicon (8<sub>1</sub>) disposed on the surface of the silicon dioxide layer and on a portion of the wall. The polysilicon (8<sub>1</sub>) comprises an upper surface that is disposed within a distance for the planar surface of the silicon substrate (1)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-10 and 23-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsunashima et al (US 2002/0024082 A1) in view of Cogan et al (4,835,586).

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Tsunashima et al discloses all the subject matter discussed above; Cogan further teaches that JFET, MOSFET, and integrated circuit can be formed in the silicon substrate. Note figures 5 and 6 of Cogan. Therefore, it would have been obvious to one of ordinary skill in the art to form the JFET, MOSFET, and integrated circuit in Tsunashima's silicon substrate in order to make useful electronic silicon device.

In re claim 6 and 26, the trench in Cogan is formed above the gate (116a).

In re claims 9, 10, 29 and 30, no patentable weight is given to the process of making the silicon device. A "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17(footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear.

Applicant's arguments filed May 10, 2006 have been fully considered but they are not persuasive.

MPEP 706.04 allows the office to reopen prosecution if there is a clear error in the previous action or knowledge of other prior art. This is the case; new prior arts have

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been found. Other Applicant's arguments with respect to claims 1-10 and 21-30 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngan Van Ngo Primary Examin**er** 

Ngan Ngo

July 23, 2006